

Figure 2 shows representative results confirming the regulation of the chTCR gene expression by tetracycline analogs. In Figure 2A, stable transfected uncloned JLAV12S (left hand side) and JN3S Jurkat (right hand side) cell populations were cultured for 48 hours in tetracycline-free medium (CM, upper row of panels) or in the presence of 1 µg/ml of Tet (broken line) or Dox (solid line) (lower row of panels) and the surface expression of chTCRs was examined after staining with FITC-conjugated goat antisera to mouse λ light chain. Figure 2B shows a timecourse of inactivation of chTCR gene expression in JLAV12S cells zero hours (top left), 8 hours (top right), 12 hours (bottom left) or 24 hours (bottom right) after addition of Dox at 1 µg/ml. In both Figures 2A and 2B negative controls (FITC-conjugated goat antisera to mouse IgG) are overlaid (filled curve). The fluorescence channel number is plotted along the x axis, and the y axis represents the relative cell number.

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CONT'D

Figure 3 shows the results of dose response curves of gene repression determined using different concentrations of Tet or Dox. After 48 hours of treatment, the cells were harvested and the expression of the chTCR was studied by FACS analysis. Stably transfected uncloned (JLAV12S, left hand column) and cloned (1F5, middle column; and 2E11, right hand column) Jurkat cell populations were cultured for 48 hours in the presence of different concentrations (0 ng/ml top row, 0.1 ng/ml second row, 1 ng/ml third row, and 10 ng/ml bottom row) of Tet (broken line) or Dox (solid line) and the surface expression of scFv-ξ molecules were examined. Negative controls (FITC-conjugated goat antisera to mouse IgG) are overlaid (filled curve). The fluorescence channel number is plotted along the x axis, and the y axis represents the relative cell number.

Figure 4 is a graph showing expression of a chimeric polypeptide (as a percentage of expression in control cells) against time.

Figures 5A and 5B are bar charts showing the levels of IL-2 production (in picograms/ml) by T lymphocytes exposed to various concentrations of tetracycline or the tetracycline analog, doxycycline.

In the Claims:

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Please cancel claims 4, 7, 11, 12, 15 and 17 without prejudice.